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IN THE CLAIMS

1. (Currently amended) A method of providing secure communications between a first wireless unit and a second wireless unit, said method comprising the step of:

providing a common key value to a first wireless unit and--for use in secure communications over at least one wireless communications system between said first wireless unit and said second wireless unit having said common key.

2. The method of claim 1 wherein said step of providing comprising the steps of:
generating a first key value corresponding to said first wireless unit;
generating a common key value; and
sending said common key value to said first wireless unit using said first key value.

3. The method of claim 2 comprising the steps of:
generating a second key value corresponding to said second wireless unit; and
sending said common key value to said second wireless unit using said second key value.

4. The method of claim 2 wherein said step of generating comprises the step of:
generating said first key value as a function of a first root key known only at said first wireless unit and a home wireless communications system for said first wireless unit.

5. The method of claim 3 wherein said step of generating comprises the step of:
generating said second key value as a function of a second root key known only at said second wireless unit and at a home wireless communications system for said second wireless unit.

6. The method of claim 2 wherein said step of providing comprises the steps of:
encrypting said common key using said first key value; and

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transmitting said common key encrypted with said first key value to said first wireless unit.

7. The method of claim 3 wherein said step of providing comprises the steps of:
encrypting said common key with said second key value; and
transmitting said common key encrypted with said second key value to said second wireless unit.

8. The method of claim 2 wherein said step of generating said common key value comprises the steps of:
generating said common key as a function of at least one of said first key value and said second key value.

9. The method of claim 1 comprising the step of:
generating said common key as an encryption key.

10. The method of claim 1 comprising the step of:
generating said common key as a session key.

11. The method of claim 1 comprising the step of:
generating a first session key value as a function of a first root key known only at said first wireless unit and a home wireless communications system for said first wireless unit; and
generating said common key as a session encryption key being a function of at least said first session key value.

12. The method of claim 1 comprising the steps of:
mutually producing said common key by a first wireless communications system for said first wireless communications system and a second wireless communications system for said second wireless unit.

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13. A method of providing secure communications between a first wireless unit and a second wireless unit, said method comprising the step of:

receiving by a first wireless unit from at least one wireless communications system a common key value for use in secure communications over at least one wireless communications system between said first wireless unit and said second wireless unit having said common key.

14. The method of claim 13 comprising the steps of:

generating a first key value corresponding to said first wireless unit; and
obtaining said common key value by said first wireless unit using said first key value.

15. The method of claim 14 comprising the steps of:

generating a second key value corresponding to said second wireless unit; and
obtaining said common key value by said second wireless unit using said second key value.

16. The method of claim 14 wherein said step of generating comprises the step of:

generating said first key value as a function of a first root key known only at said first wireless unit and a home wireless communications system for said first wireless unit.

17. The method of claim 14 wherein said step of providing comprises the steps of:

decrypting said common key using said first key value.

18. The method of claim 13 comprising the step of:

receiving said common key as an encryption key.

19. The method of claim 13 comprising the step of:

receiving said common key as a session key.

20. The method of claim 13 comprising the steps of:

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generating a first session key value as a function of a first root key known only at said first wireless unit and a home wireless communications system for said first wireless unit; and receiving said common key as a session encryption key being a function of at least said first session key value.